Bruhat Bangalore Mahanagara Palike

Byatarayanapura Division

Name of Work: Comprehensive Development of roads and drains in Ward No 07, Kodigehalli Sub Division

Est Cost: =300.00Lakhs

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5=69.80								
	Desilt								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	2	290.00	0.60	0.50	174.00			
	W0603	2	135.00	0.60	0.50	81.00			
	W0618 - 4th Cross	2	230.00	0.60	0.50	138.00			
	W0620 - 5th Cross	2	150.00	0.60	0.50	90.00			
	W0486 - 2nd Cross	2	75.00	0.60	0.50	45.00			
	W0611 - 6th Cross	2	65.00	0.60	0.50	39.00			
	W0623 - 7th Cross	2	65.00	0.60	0.50	39.00			
	W0629 - 8th Cross	2	70.00	0.60	0.50	42.00			
	Padma tent area								
	1st Cross	2	250.00	0.60	0.50	150.00			
	2nd Cross	2	150.00	0.60	0.50	90.00			
	3rd Cross	2	230.00	0.60	0.50	138.00			
	4th Cross	2	70.00	0.60	0.50	42.00			
	5th Cross	2	60.00	0.60	0.50	36.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	2	90.00	0.60	0.50	54.00			
	2nd Cross Road	2	100.00	0.60	0.50	60.00			
	3rd Cross Road	2	100.00	0.60	0.50	60.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	2	130.00	0.60	0.50	78.00			
	1st Cross Road	2	30.00	0.60	0.50	18.00			
	2nd Cross Road	2	20.00	0.60	0.50	12.00			
	3rd Cross Road	2	20.00	0.60	0.50	12.00			
	Cross Road	2	40.00	0.60	0.50	24.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	2	90.00	0.60	0.50	54.00			
	2nd Cross Road	2	100.00	0.60	0.50	60.00			
	3rd Cross Road	2	110.00	0.60	0.50	66.00			
	4th Cross Road	2	110.00	0.60	0.50	66.00			
	5th Cross Road	2	120.00	0.60	0.50	72.00			
	Cross Road	2	100.00	0.60	0.50	60.00			
	Cross Road	2	90.00	0.60	0.50	54.00			
	Culverts								
	Cross Culverts	2	6.00	0.80	0.80	7.68			
	RCC Culvert								
		2	6.00	1.40	1.15	19.32			
						1,881.00	**Cum**	**211.79**	**398376.99**
	Basic rate	**130.00**							
	5Km lead & Lift= 57+(2*1.28*5)	**69.80**							
	Sub Total	**199.80**							
	6% AW	**11.99**							
	Total	**211.79**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27, I.No.5.33 of PW, P&IWTD SR 2018-19)								
	Desilt								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	2	290.00	1.35		783.00			
	W0603	2	135.00	1.35		364.50			
	W0618 - 4th Cross	2	230.00	1.35		621.00			
	W0620 - 5th Cross	2	150.00	1.35		405.00			
	W0486 - 2nd Cross	2	75.00	1.35		202.50			
	W0611 - 6th Cross	2	65.00	1.35		175.50			
	W0623 - 7th Cross	2	65.00	1.35		175.50			
	W0629 - 8th Cross	2	70.00	1.35		189.00			
	Padma tent area								
	1st Cross	2	250.00	1.35		675.00			
	2nd Cross	2	150.00	1.35		405.00			
	3rd Cross	2	230.00	1.35		621.00			
	4th Cross	2	70.00	1.35		189.00			
	5th Cross	2	60.00	1.35		162.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	2	90.00	1.35		243.00			
	2nd Cross Road	2	100.00	1.35		270.00			
	3rd Cross Road	2	100.00	1.35		270.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	2	130.00	1.35		351.00			
	1st Cross Road	2	30.00	1.35		81.00			
	2nd Cross Road	2	20.00	1.35		54.00			
	3rd Cross Road	2	20.00	1.35		54.00			
	Cross Road	2	40.00	1.35		108.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	2	90.00	1.35		243.00			
	2nd Cross Road	2	100.00	1.35		270.00			
	3rd Cross Road	2	110.00	1.35		297.00			
	4th Cross Road	2	110.00	1.35		297.00			
	5th Cross Road	2	120.00	1.35		324.00			
	Cross Road	2	100.00	1.35		270.00			
	Cross Road	2	90.00	1.35		243.00			
						8,343.00			
	Consider 15%					**1,251.45**			
	deduct damaged / missing slab 15%					-187.72			
						1,063.73	**Sqm**	**111.30**	**118393.43**
	Basic rate	**105.00**							
	6% AW	**6.30**							
	Total	**111.30**							
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.27, I.No.5.31.1 of PW, P&IWTD SR 2018-19)								
	Add damaged / missing slab 15%					187.72			
						187.72	**Sqm**	**742.00**	**139286.39**
	Basic rate	**700.00**							

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	6% AW	42.00							
	Sub Total	742.00							
4	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408 (P.No.254, I.No.34.1 of PW,P&IWTD S.R 2018-19)								
	RCC Culvert								
		2	6.00	1.40	0.15	2.52			
		2	140.00	0.30	0.15	12.60			
						15.12	Cum	4479.56	67,730.95
	Basic rate	4,226.00							
	6% AW	253.56							
	Sub Total	4,479.56							
5	KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm (Page No.27. Iitem no.5.27.2 of KPWD S.R Bangalore Circle (2018-19)								
	Flagging Course								
		2	140.00		0.20	56.00			
						56.00	Sqm	1010.18	56,570.08
	Basic rate	953.00							
	6% AW	57.18							
	Sub Total	1,010.18							
6	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2(P.No 255, I.No.34.11 of PW,P&IWTD S.R 2018-19)								
	Flagging Course								
		2	140.00	0.15	0.10	4.24			
						4.24	Cum	5599.98	23,755.12
	Basic rate	5,283.00							
	6% AW	316.98							
	Sub Total	5,599.98							
7	34.17 Providing and laying in position plain/Reinforced cement cement concrete M20 for sub structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. (P.No.257, I.No.34.17 of PW, P&IWTD SR 2018-19)								
	Raft								
	RCC Culvert								
		2	6.00	1.20	0.20	2.88			

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	Side Wall								
	RCC Culvert								
		4	6.00	0.20	0.80	3.84			
						6.72	**Cum**	**5277.74**	**35,466.41**
	Basic rate	**4,979.00**							
	6% AW	**298.74**							
	Sub Total	**5,277.74**							
8	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200.**TMT Bars Fe 500** (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19)								
	Consider 80kg/Cum for Culvert	1	6.72	80.00		0.54			
						0.54	**Tonne**	**72326.98**	**39,056.57**
	Basic rate	**68,233.00**							
	6% AW	**4,093.98**							
	Sub Total	**72,326.98**							
9	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700. (P.No.272, I.No.37.66 of PW,P&IWTD SR 2018-19)								
	Precast Covering Slab								
	Drain Covering Slab	1	140.00			140.00			
						140.00	**m**	**1145.86**	**160420.40**
	A.Basic rate	**1,081.00**							
	B.Area Weightage 6%	**64.86**							
	Total	**1,145.86**							
10	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	RCC Culvert								
		2	6.00	1.20		14.40			
	For Drain cover in amruthalli circle parallel rd	1	380.00	2.00		760.00			
						774.40	**Sqm**	**5418.00**	**4195699.20**
	Data rate	**5,418.00**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
11	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301with 4km lead= (I No-19.14,P No-143)								
	Road Works								
	Padma tent area								
	1st Cross	1	10.30	2.50	0.30	7.73			
	2nd Cross	1	20.00	1.00	0.30	6.00			
	3rd Cross	1	15.00	1.50	0.30	6.75			
	4th Cross	1	25.00	2.00	0.30	15.00			
	5th Cross	1	30.00	2.80	0.30	25.20			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00	0.30	11.25			
		15	2.00	2.50	0.30	22.50			
		18	1.50	1.50	0.30	12.15			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00	0.30	10.50			
	2nd Cross Road	11	2.00	2.00	0.30	13.20			
	3rd Cross Road	15	2.00	1.60	0.30	14.40			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10	2.00	2.00	0.30	12.00			
	1st Cross Road	2	2.50	2.00	0.30	3.00			
	2nd Cross Road	4	1.60	1.70	0.30	3.26			
	3rd Cross Road	3	1.50	2.00	0.30	2.70			
	Cross Road	8	2.00	1.35	0.30	6.48			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10	2.00	1.50	0.30	9.00			
	2nd Cross Road	9	2.50	2.00	0.30	13.50			
	3rd Cross Road	10	1.80	2.10	0.30	11.34			
	4th Cross Road	12	2.50	1.80	0.30	16.20			
	5th Cross Road	12	2.50	1.80	0.30	16.20			
	Cross Road	5	2.50	1.80	0.30	6.75			
	Cross Road	8	2.00	2.00	0.30	9.60			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00	0.30	54.00			
	Cross Road	10	2.50	1.50	0.30	11.25			
		11	2.00	1.40	0.30	9.24			
	Cross Road	6	2.00	1.50	0.30	5.40			
		15	2.00	1.80	0.30	16.20			
		10	2.00	1.60	0.30	9.60			
					0.30				
	Bhadrappa Layout & Amruthahalli Surrounding								
	Cross Road 1	1	40.00	4.00	0.30	48.00			
	Cross Road 2	1	60.00	4.20	0.30	75.60			
	Cross Road 3	1	400.00	4.00	0.30	480.00			
	Cross Road 4	1	150.00	4.00	0.30	180.00			
						1,144.00	**Cum**	**54.31**	**62,130.64**
	Basic rate	**41.00**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
	5Km lead & Lift= (2*1.28*4)	**10.24**							
	Sub Total	**51.24**							
	6% AW	**3.07**							
	Total	**54.31**							
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road Works								
	Padma tent area								
	1st Cross	1	10.30	2.50	0.25	6.44			
	2nd Cross	1	20.00	1.00	0.25	5.00			
	3rd Cross	1	15.00	1.50	0.25	5.63			
	4th Cross	1	25.00	2.00	0.25	12.50			
	5th Cross	1	30.00	2.80	0.25	21.00			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00	0.25	9.38			
		15	2.00	2.50	0.25	18.75			
		18	1.50	1.50	0.25	10.13			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00	0.25	8.75			
	2nd Cross Road	11	2.00	2.00	0.25	11.00			
	3rd Cross Road	15	2.00	1.60	0.25	12.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10	2.00	2.00	0.25	10.00			
	1st Cross Road	2	2.50	2.00	0.25	2.50			
	2nd Cross Road	4	1.60	1.70	0.25	2.72			
	3rd Cross Road	3	1.50	2.00	0.25	2.25			
	Cross Road	8	2.00	1.35	0.25	5.40			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10	2.00	1.50	0.25	7.50			
	2nd Cross Road	9	2.50	2.00	0.25	11.25			
	3rd Cross Road	10	1.80	2.10	0.25	9.45			
	4th Cross Road	12	2.50	1.80	0.25	13.50			
	5th Cross Road	12	2.50	1.80	0.25	13.50			
	Cross Road	5	2.50	1.80	0.25	5.63			
	Cross Road	8	2.00	2.00	0.25	8.00			
					0.25				
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00	0.25	45.00			
	Cross Road	10	2.50	1.50	0.25	9.38			
		11	2.00	1.40	0.25	7.70			
	Cross Road	6	2.00	1.50	0.25	4.50			
		15	2.00	1.80	0.25	13.50			
		10	2.00	1.60	0.25	8.00			
						300.33	**Cum**	**2001.28**	**601044.42**
	Basic rate	**1,888.00**							
	6% AW	**113.28**							
	Sub Total	**2,001.28**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
13	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.158, I.No.21.6 of PW,P&IWTD SR 2018-19)								
	Road Works								
	Padma tent area								
	1st Cross	1	10.30	2.50		25.75			
	2nd Cross	1	20.00	1.00		20.00			
	3rd Cross	1	15.00	1.50		22.50			
	4th Cross	1	25.00	2.00		50.00			
	5th Cross	1	30.00	2.80		84.00			
	Amrutha Nagara C Sector								
	Bad Reaches	5	2.50	3.00		37.50			
		15	2.00	2.50		75.00			
		18	1.50	1.50		40.50			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	7	2.50	2.00		35.00			
	2nd Cross Road	11	2.00	2.00		44.00			
	3rd Cross Road	15	2.00	1.60		48.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	10	2.00	2.00		40.00			
	1st Cross Road	2	2.50	2.00		10.00			
	2nd Cross Road	4	1.60	1.70		10.88			
	3rd Cross Road	3	1.50	2.00		9.00			
	Cross Road	8	2.00	1.35		21.60			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	10	2.00	1.50		30.00			
	2nd Cross Road	9	2.50	2.00		45.00			
	3rd Cross Road	10	1.80	2.10		37.80			
	4th Cross Road	12	2.50	1.80		54.00			
	5th Cross Road	12	2.50	1.80		54.00			
	Cross Road	5	2.50	1.80		22.50			
	Cross Road	8	2.00	2.00		32.00			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00		180.00			
	Cross Road	10	2.50	1.50		37.50			
		11	2.00	1.40		30.80			
	Cross Road	6	2.00	1.50		18.00			
		15	2.00	1.80		54.00			
		10	2.00	1.60		32.00			
						1,201.33	**Sqm**	**28.62**	**34,382.06**
	Basic rate	**27.00**							
	6% AW	**1.62**							
	Sub Total	**28.62**							
14	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.158, I.No.21.2 of PW,P&IWTD SR 2018-19)								

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	1	290.00	5.50		1,595.00			
	W0603	1	135.00	6.50		877.50			
	W0618 - 4th Cross	1	230.00	6.50		1,495.00			
	W0620 - 5th Cross	1	150.00	5.50		825.00			
	W0486 - 2nd Cross	1	75.00	5.20		390.00			
	W0611 - 6th Cross	1	65.00	4.80		312.00			
	W0623 - 7th Cross	1	65.00	4.60		299.00			
	W0629 - 8th Cross	1	70.00	4.70		329.00			
	Padma tent area								
	1st Cross	1	247.00	5.10		1,259.70			
	2nd Cross	1	150.00	5.20		780.00			
	3rd Cross	1	226.00	5.10		1,152.60			
	4th Cross	1	70.00	5.00		350.00			
	5th Cross	1	60.00	5.00		300.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	1	90.00	4.50		405.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	100.00	4.50		450.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	1	130.00	5.50		715.00			
	1st Cross Road	1	30.00	3.50		105.00			
	2nd Cross Road	1	20.00	3.50		70.00			
	3rd Cross Road	1	20.00	3.50		70.00			
	Cross Road	1	40.00	4.00		160.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	1	95.00	4.00		380.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	110.00	4.20		462.00			
	4th Cross Road	1	110.00	5.00		550.00			
	5th Cross Road	1	120.00	4.00		480.00			
	Cross Road	1	105.00	4.00		420.00			
	Cross Road	1	85.00	4.00		340.00			
	Cross Road A	1	160.00	5.50		880.00			
	Cross Road B	1	180.00	5.50		990.00			
	Cross Road C	1	95.00	5.50		522.50			
	deduct prime coat					-1,201.33			
						16,662.97	**Sqm**	**5.30**	**88,313.74**
	Basic rate	**5.00**							
	Area Weightage 6%	**0.30**							
	Final Rate	**5.30**							
15	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.158 I.No.21.7 of PW,P&IWTD SR of 2018-19)								
	Road Works								
	Tack Coat For BC								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	1	290.00	5.50		1,595.00			
	W0603	1	135.00	6.50		877.50			
	W0618 - 4th Cross	1	230.00	6.50		1,495.00			
	W0620 - 5th Cross	1	150.00	5.50		825.00			

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
	W0486 - 2nd Cross	1	75.00	5.20		390.00			
	W0611 - 6th Cross	1	65.00	4.80		312.00			
	W0623 - 7th Cross	1	65.00	4.60		299.00			
	W0629 - 8th Cross	1	70.00	4.70		329.00			
	Padma tent area								
	1st Cross	1	247.00	5.10		1,259.70			
	2nd Cross	1	150.00	5.20		780.00			
	3rd Cross	1	226.00	5.10		1,152.60			
	4th Cross	1	70.00	5.00		350.00			
	5th Cross	1	60.00	5.00		300.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	1	90.00	4.50		405.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	100.00	4.50		450.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	1	130.00	5.50		715.00			
	1st Cross Road	1	30.00	3.50		105.00			
	2nd Cross Road	1	20.00	3.50		70.00			
	3rd Cross Road	1	20.00	3.50		70.00			
	Cross Road	1	40.00	4.00		160.00			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	1	95.00	4.00		380.00			
	2nd Cross Road	1	100.00	4.50		450.00			
	3rd Cross Road	1	110.00	4.20		462.00			
	4th Cross Road	1	110.00	5.00		550.00			
	5th Cross Road	1	120.00	4.00		480.00			
	Cross Road	1	105.00	4.00		420.00			
	Cross Road	1	85.00	4.00		340.00			
	Cross Road A	1	160.00	5.50		880.00			
	Cross Road B	1	180.00	5.50		990.00			
	Cross Road C	1	95.00	5.50		522.50			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00		180.00			
						18,044.30	**Sqm**	**12.72**	**229523.50**
	Basic rate	**12.00**							
	Area Weightage 6%	**0.72**							
	Final Rate	**12.72**							
16	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No.171, I.No.21.78.12 of PW,P&IWTD SR 2018-19) As per Issue rate dated: 03/01/2020								
	Amruth Nagar C Sector								
	W0488 - 3rd Cross	1	290.00	5.50	0.04	63.80			
	W0603	1	135.00	6.50	0.04	35.10			
	W0618 - 4th Cross	1	230.00	6.50	0.04	59.80			
	W0620 - 5th Cross	1	150.00	5.50	0.04	33.00			
	W0486 - 2nd Cross	1	75.00	5.20	0.04	15.60			
	W0611 - 6th Cross	1	65.00	4.80	0.04	12.48			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
	W0623 - 7th Cross	1	65.00	4.60	0.04	11.96			
	W0629 - 8th Cross	1	70.00	4.70	0.04	13.16			
	Padma tent area								
	1st Cross	1	247.00	5.10	0.04	50.39			
	2nd Cross	1	150.00	5.20	0.04	31.20			
	3rd Cross	1	226.00	5.10	0.04	46.10			
	4th Cross	1	70.00	5.00	0.04	14.00			
	5th Cross	1	60.00	5.00	0.04	12.00			
	Shabarinagara/ Byatarayanpura								
	1st Cross Road	1	90.00	4.50	0.04	16.20			
	2nd Cross Road	1	100.00	4.50	0.04	18.00			
	3rd Cross Road	1	100.00	4.50	0.04	18.00			
	Byregowda Layout / Byatarayanpura								
	1st main Road	1	130.00	5.50	0.04	28.60			
	1st Cross Road	1	30.00	3.50	0.04	4.20			
	2nd Cross Road	1	20.00	3.50	0.04	2.80			
	3rd Cross Road	1	20.00	3.50	0.04	2.80			
	Cross Road	1	40.00	4.00	0.04	6.40			
	Vinayaka Layout 2nd Stage								
	1st Cross Road	1	95.00	4.00	0.04	15.20			
	2nd Cross Road	1	100.00	4.50	0.04	18.00			
	3rd Cross Road	1	110.00	4.20	0.04	18.48			
	4th Cross Road	1	110.00	5.00	0.04	22.00			
	5th Cross Road	1	120.00	4.00	0.04	19.20			
	Cross Road	1	105.00	4.00	0.04	16.80			
	Cross Road	1	85.00	4.00	0.04	13.60			
	Cross Road A	1	160.00	5.50	0.04	35.20			
	Cross Road B	1	180.00	5.50	0.04	39.60			
	Cross Road C	1	95.00	5.50	0.04	20.90			
	Kashinagar (UGD CUT PORTION)	1	180.00	1.00	0.04	7.20			
						721.77	**Cum**	**7753.9**	**5596532.40**
	Basic rate (Issue Rate)	7315.00							
	6% AW	**438.9**							
	Sub Total	**7753.9**							
17	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Center Line	0.50	3,523.00	0.10		176.15			
	Edge Line	2.00	1,973.00	0.10		394.60			
						570.75	**Sqm**	**454.74**	**259542.86**
	Basic rate	**429.00**							
	6% AW	**25.74**							
	Sub Total	**454.74**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
18	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH V Revision Specification No. 601, IS 456 Table-5. with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver .((P.No.174, I.No.22.1.2 of PW,P&IWTD SR 2018-19)								
	SWD at Amrutalli circle	1	145.00	1.60	0.15	34.80			
	Bhadrappa Layout & Amruthahalli Surrounding								
	Cross Road 1	1	40.00	4.00	0.15	24.00			
	Cross Road 2	1	60.00	4.20	0.15	37.80			
	Cross Road 3	1	400.00	4.00	0.15	240.00			
	Cross Road 4	1	150.00	4.00	0.15	90.00			
						426.60	**cum**	**3884.90**	**1657298.34**
	Basic rate	**3,665.00**							
	6% AW	**219.90**							
	Sub Total	**3,884.90**							
19	Constructing un-reinforced, **plain cement concrete for pavements using Grade concrete M30** with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-182,I No-22.6.1)								
	Bhadrappa Layout & Amruthahalli Surrounding								
	Cross Road 1	1	40.00	4.00	0.10	16.00			
	Cross Road 2	1	60.00	4.20	0.10	25.20			
	Cross Road 3	1	400.00	4.00	0.10	160.00			
	Cross Road 4	1	150.00	4.00	0.10	60.00			
						261.20	**Cum**	**5210.96**	**1361102.75**
	Basic rate	**4,916.00**							
	6% AW	**294.96**							
	Sub Total	**5,210.96**							

Sl No	Description of Items	No	Length m	Width m	Depth m	Quantity	Unit	Rate	Amount
20	KSRRB M2100-1.1. Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications I. Ordinary soil - A. Manual Means (i) Depth upto 3m MORTH Specification No. 304(P.No.220, I.No.27.1 of PW,P&IWTD S.R 2018-19))								
	SWD at Amrutalli circle	1	145.00	3.40	2.50	1,232.50			
						1,232.50	Cum	**280.69**	**345950.43**
	A.Basic rate	**195.00**							
	B.Loading and unloading	**69.80**							
	C (Area Weightage 6%)	**15.89**							
	Total	**280.69**							
21	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications, specification. No. KBS (P.No.7, I.No.2.15 of PW,P&IWTD S.R 2018-19))								
	SWD at Amrutalli circle	1	145.00	3.40	0.45	221.85			
						221.85	Cum	**2574.74**	**571206.07**
	A.Basic rate	**2,429.00**							
	B.Area Weightage 6%	**145.74**							
	Total	**2,574.74**							
22	KSRRB M2100-13. Plain / Reinforced Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100.(P.No.222, I.No.27.24 of PW,P&IWTD S.R 2018-19)								
	SWD at Amrutalli circle	1	145.00	2.80	0.30	121.80			
						121.80	Cum	**5409.18**	**658838.12**
	A.Basic rate	**5,103.00**							
	B.Area Weightage 6%	**306.18**							
	Total	**5,409.18**							
23	KSRRB M2100-17.2. provinding and laying Plain / Reinforced Cement Concrete design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. open foundation complete as per drawing and technical specification including cost of all materials, labour, HOM curing, formworks, scafoling and centring complete as per specification MORTH Specification No. 1500,1700 & 2100(P.No.223, I.No.27.31 of PW,P&IWTD S.R 2018-19)								
	SWD at Amrutalli circle								
	Base Slab	1	145.00	2.50	0.35	126.88			
						126.88	Cum	**5294.7**	**671765.06**
	A.Basic rate	**4,995.00**							
	B.Area Weightage 6%	**299.70**							
	Total	**5,294.70**							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			m	m	m				
24	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 - i) Upto 5m height(P.No.228, I.No.28.7.12 of PW,P&IWTD S.R S.R 2018-19)								
	SWD at Amrutalli circle	Cum							
	Side Walls	2	145.00	0.45	2.00	261.00			
		2	145.00	0.33	2.00	188.50			
	haunch	2x0.5	145.00	0.30	0.40	17.40			
						466.90	**Cum**	**5640.26**	**2633437.39**
	A.Basic rate	**5,321.00**							
	B.Area Weightage 6%	**319.26**							
	Total	**5,640.26**							
25	KSRRB M2200 -6 Supplying , fitting and placingTMT bar Fe 500 reinforcement in sub-structure complete as per drawing & technical specification complete as per the specification . MORTH Specification No.1600 & 2200(P.No.229 , I.No.28.8.2 of PW,P&IWTD S.R 2018-19)								
	Consider 120kg/cum for base and wall		593.78	--	0.12	71.25			
						71.25	Tonne	**72326.98**	**5153297.33**
	A.Basic rate	**68,233.00**							
	B.Area Weightage 6%	**4,093.98**							
	Total	**72,326.98**							
							Total Construction Cost		**2,51,59,120.64**
26							**12% GST to Construction Cost**		**30,19,094.48**
							5% Tender Premium		**12,57,956.03**
27						**Cost towards Preparation of DPR LS**			**2,81,783.00**
28						**Cost towards PMC / Third Party inspection LS**			**2,81,783.00**
								Sub Total	**2,99,99,737.15**
29						**Miscellaneous and rounding off**			**262.85**
								TOTAL	**3,00,00,000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Tejus Consultants

Assistant Engineer
BBMP Bangalore

Asst. Executive Engineer,
BBMP Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ, ಬೆಂಗಳೂರು

Executive Engineer
BBMP Bangalore